BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

RA 1ST AND FINAL BILL

Name of work: Construction of Culverts at Various places and other works in Ward No 11 (Kuvempunagara) in Vidyaranyapura Sub Division.

Estimated Cost : Rs. 30.00 Lakhs

Head of Account : P-1771

Job Code: 011-20-000017 Indent No. 37133

Name of Agency: Sri. S. Venkateshappa, Contractor, # 530, Kaliyamma Temple Road, Kuvempunagara 2nd Stage, Jalhalli (P), Bangalore – 560 014.

Work order No: BBMP/EE/BTP/WO/97/2019-20 D: 21.09.2019.

Measurements Recarded on :

Sl. No	Description	No.	L	B1	B2	Av.B	D	Qty	Rate	Amount
1	Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods etc complete as per specifications complete as per specifications									
	Qty as per Premeasurement vide Page No. 01 & 02 is =							**297.00**	240.00	**71280.00**
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) etc complete as per specifications complete as per specifications.									
	Qty as per Premeasurement vide Page No. 03 is =							**540.00**	100.00	**54000.00**
3	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing etc complete as per specifications complete as per specifications.									
	New BS Sla Drain									
	Singapura Layout 5th Cross N/S Cross Road	1	31.10				1.35	41.99		
		1	9.00				1.35	12.15		
							Total Qty =	**54.14**		
							Qty Limited to =	**54.00**	700.00	**37800.00**
4	Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing etc complete as per specifications complete as per specifications.									
	C. Munishamappa Layout Cross Road	2	14.20				0.40	11.36		
		2	27.90				0.40	22.32		
	Abbigere Road S/S Jayamma Thota	2	30.00				0.40	24.00		
		2	24.20				0.40	19.36		
	Singapura Layout 5th Cross N/S	2	7.80				0.40	6.24		
		2	25.90				0.40	20.72		
		2	30.00				0.40	24.00		
		2	12.80				0.40	10.24		
		2	12.80				0.40	10.24		
	Singapura Layout 5th Cross S/S	2	15.10				0.40	12.08		

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Sl. No	Description	No.	L	B1	B2	Av.B	D	Qty	Rate	Amount
		2	18.20				0.40	14.56		
		2	19.30				0.40	15.44		
		2	19.10				0.40	15.28		
	Kuvempunagara 1st Stage Govt Hospital opp	2	30.00				0.40	24.00		
		2	10.00				0.40	8.00		
	Cross Road	2	30.00				0.40	24.00		
		2	11.00				0.40	8.80		
	BS Slab Drain Singapura Layout 5th Cross N/S	2	31.10				0.40	24.88		
		2	31.10				0.40	24.88		
							Total Qty =	**320.40**		
							Qty Limited to =	**320.00**	900.00	**288000.00**
5	Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation**, including cost of all materials, labour, HOM of machinery, curing etc complete as per specifications complete as per specifications.									
	Qty as per Premeasurement vide Page No. 03 is =							**18.00**	5200.00	**93600.00**
6	Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing etc complete as per specifications complete as per specifications.									
	Side Wall									
	Singapura Garden 4th Cross	2	7.50			0.50	0.90	6.75		
	Singapura Garden 2nd B Cross	2	6.70			0.50	0.90	6.03		
	Singapura Maramma Temple	2	6.20			0.50	0.90	5.58		
	Valmikinagara main road theater road	2	5.00			0.50	0.90	4.50		
	Naidu Layout Sameeksha Apart Cross Road	2	5.50			0.60	0.90	5.94		
	Somanna Layout cross road opp # 97 & 98	2	6.60			0.60	0.90	7.13		
	C. Munishamappa Layout Cross Road	2	6.30			0.50	0.80	5.04		
	Singapura Layout 5th Cross Sub Cross 1	2	5.70			0.50	0.80	4.56		
	Srinidhi Layout 4th Cross	2	8.20			0.50	0.80	6.56		
	Teachers Layout Edga Road	2	5.80			0.50	0.80	4.64		
							Total Qty =	**56.73**		
							Qty Limited to =	**56.70**	4500.00	**255150.00**
7	Providing **ruled pointing 20 mm deep** to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing etc complete as per specifications complete as per specifications.									
	Singapura Garden 4th Cross	2	7.50				0.90	13.50		
	Singapura Garden 2nd B Cross	2	6.70				0.90	12.06		
	Singapura Maramma Temple	2	6.20				0.90	11.16		
	Valmikinagara main road theater road	2	5.00				0.90	9.00		
	Naidu Layout Sameeksha Apart Cross Road	2	5.50				0.90	9.90		
	Somanna Layout cross road opp # 97 & 98	2	6.60				0.90	11.88		
	C. Munishamappa Layout Cross Road	2	6.30				0.80	10.08		
	Singapura Layout 5th Cross Sub Cross 1	2	5.70				0.80	9.12		
	Srinidhi Layout 4th Cross	2	8.20				0.80	13.12		
	Teachers Layout Edga Road	2	5.80				0.80	9.28		
							Total Qty =	**109.10**		
							Qty Limited to =	**108.00**	120.00	**12960.00**
8	Providing **precast slab of 250mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc.,complete as per the direction of engineer in charge - (Data rate Approved).								Sqm	
	Singapura Garden 4th Cross	1	7.50			1.50		11.25		
	Singapura Garden 2nd B Cross	1	6.70			1.50		10.05		
	Singapura Maramma Temple	1	6.20			1.50		9.30		

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Sl. No	Description	No.	L	B1	B2	Av.B	D	Qty	Rate	Amount
	Valmikinagara main road theater road	1	5.00			1.50		7.50		
	Naidu Layout Sameeksha Apart Cross Road	1	5.50			1.50		8.25		
	Somanna Layout cross road opp # 97 & 98	1	6.60			1.50		9.90		
	C. Munishamappa Layout Cross Road	1	6.30			1.50		9.45		
	Singapura Layout 5th Cross Sub Cross 1	1	5.70			1.50		8.55		
	Srinidhi Layout 4th Cross	1	8.20			1.50		12.30		
	Teachers Layout Edga Road	1	5.80			1.50		8.70		
							Total Qty =	**95.25**		
							Qty Limited to =	**90.00**	5000.00	**450000.00**
9	Providing **precast slab of 100mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc.,complete as per the direction of engineer in charge - (Data rate Approved).								Sqm	
	C. Munishamappa Layout Cross Road	1	14.20			0.90		12.78		
		1	27.90			0.90		25.11		
	Abbigere Road S/S Jayamma Thota	1	30.00			0.90		27.00		
		1	24.20			0.90		21.78		
	Singapura Layout 5th Cross N/S	1	7.80			0.90		7.02		
		1	25.90			0.90		23.31		
		1	30.00			0.90		27.00		
		1	12.80			0.90		11.52		
		1	12.80			0.90		11.52		
	Singapura Layout 5th Cross S/S	1	15.10			0.90		13.59		
		1	18.20			0.90		16.38		
		1	19.30			0.90		17.37		
		1	19.10			0.90		17.19		
	Kuvempunagara 1st Stage Govt Hospital opp	1	30.00			0.90		27.00		
		1	10.00			0.90		9.00		
	Cross Road	1	30.00			0.90		27.00		
		1	11.00			0.90		9.90		
	BS Slab Drain Singapura Layout 5th Cross N/S	1	31.10			0.90		27.99		
		1	31.10			0.90		27.99		
							Total Qty =	**360.45**		
							Qty Limited to =	**360.00**	1945.00	**700200.00**
10	Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing etc complete as per specifications complete as per specifications.								Cum	
	Vent Concrete									
	C. Munishamappa Layout Cross Road	1	14.20			0.45	0.10	0.64		
		1	27.90			0.45	0.10	1.26		
	Abbigere Road S/S Jayamma Thota	1	30.00			0.45	0.10	1.35		
		1	24.20			0.45	0.10	1.09		
	Singapura Layout 5th Cross N/S	1	7.80			0.45	0.10	0.35		
		1	25.90			0.45	0.10	1.17		
		1	30.00			0.45	0.10	1.35		
		1	12.80			0.45	0.10	0.58		
		1	12.80			0.45	0.10	0.58		
	Singapura Layout 5th Cross S/S	1	15.10			0.45	0.10	0.68		
		1	18.20			0.45	0.10	0.82		
		1	19.30			0.45	0.10	0.87		
		1	19.10			0.45	0.10	0.86		
	Kuvempunagara 1st Stage Govt Hospital opp	1	30.00			0.45	0.10	1.35		
		1	10.00			0.45	0.10	0.45		
	Cross Road	1	30.00			0.45	0.10	1.35		
		1	11.00			0.45	0.10	0.50		
	BS Slab Drain Singapura Layout 5th Cross N/S	1	31.10			0.45	0.10	1.40		

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Sl. No	Description	No.	L	B1	B2	Av.B	D	Qty	Rate	Amount
		1	31.10			0.45	0.10	1.40		
	Flagging Course									
	C. Munishamappa Layout Cross Road	2	14.20			0.20	0.10	0.57		
		2	27.90			0.20	0.10	1.12		
	Abbigere Road S/S Jayamma Thota	2	30.00			0.20	0.10	1.20		
		2	24.20			0.20	0.10	0.97		
	Singapura Layout 5th Cross N/S	2	7.80			0.20	0.10	0.31		
		2	25.90			0.20	0.10	1.04		
		2	30.00			0.20	0.10	1.20		
		2	12.80			0.20	0.10	0.51		
		2	12.80			0.20	0.10	0.51		
	Singapura Layout 5th Cross S/S	2	15.10			0.20	0.10	0.60		
		2	18.20			0.20	0.10	0.73		
		2	19.30			0.20	0.10	0.77		
		2	19.10			0.20	0.10	0.76		
	Kuvempunagara 1st Stage Govt Hospital opp	2	30.00			0.20	0.10	1.20		
		2	10.00			0.20	0.10	0.40		
	Cross Road	2	30.00			0.20	0.10	1.20		
		2	11.00			0.20	0.10	0.44		
	BS Slab Drain Singapura Layout 5th Cross N/S	2	31.10			0.20	0.10	1.24		
		2	31.10			0.20	0.10	1.24		
	Ramp									
	C. Munishamappa Layout Cross Road	1	14.20			0.30	0.10	0.43		
		1	27.90			0.30	0.10	0.84		
	Abbigere Road S/S Jayamma Thota	1	30.00			0.30	0.10	0.90		
		1	24.20			0.30	0.10	0.73		
	Singapura Layout 5th Cross N/S	1	7.80			0.30	0.10	0.23		
		1	25.90			0.30	0.10	0.78		
		1	30.00			0.30	0.10	0.90		
		1	12.80			0.30	0.10	0.38		
		1	12.80			0.30	0.10	0.38		
	Singapura Layout 5th Cross S/S	1	15.10			0.30	0.10	0.45		
		1	18.20			0.30	0.10	0.55		
		1	19.30			0.30	0.10	0.58		
		1	19.10			0.30	0.10	0.57		
	Kuvempunagara 1st Stage Govt Hospital opp	1	30.00			0.30	0.10	0.90		
		1	10.00			0.30	0.10	0.30		
	Cross Road	1	30.00			0.30	0.10	0.90		
		1	11.00			0.30	0.10	0.33		
	BS Slab Drain Singapura Layout 5th Cross N/S	1	31.10			0.30	0.10	0.93		
		1	31.10			0.50	0.10	1.56		
	Culvert Vent Concrete									
	Singapura Garden 4th Cross	1	7.50			1.50	0.10	1.13		
	Singapura Garden 2nd B Cross	1	6.70			1.50	0.10	1.01		
	Singapura Maramma Temple	1	6.20			1.50	0.10	0.93		
	Valmikinagara main road theater road	1	5.00			1.50	0.10	0.75		
	Naidu Layout Sameeksha Apart Cross Road	1	5.50			1.50	0.10	0.83		
	Somanna Layout cross road opp # 97 & 98	1	6.60			1.50	0.10	0.99		
	C. Munishamappa Layout Cross Road	1	6.30			1.50	0.10	0.95		
	Singapura Layout 5th Cross Sub Cross 1	1	5.70			1.50	0.10	0.86		
	Srinidhi Layout 4th Cross	1	8.20			1.50	0.10	1.23		
	Teachers Layout Edga Road	1	5.80			1.50	0.10	0.87		

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Sl. No	Description	No.	L	B1	B2	Av.B	D	Qty	Rate	Amount
	amp									
	Singapura Garden 4th Cross	2	7.50			0.90	0.15	2.03		
	Singapura Garden 2nd B Cross	2	6.70			0.90	0.15	1.81		
	Singapura Maramma Temple	2	6.20			0.90	0.15	1.67		
	Valmikinagara main road theater road	2	5.00			0.90	0.15	1.35		
	Naidu Layout Sameeksha Apart Cross Road	2	5.50			0.90	0.15	1.49		
	Somanna Layout cross road opp # 97 & 98	2	6.60			0.90	0.15	1.78		
	C. Munishamappa Layout Cross Road	2	6.30			0.90	0.15	1.70		
	Singapura Layout 5th Cross Sub Cross 1	2	5.70			0.90	0.15	1.54		
	Srinidhi Layout 4th Cross	2	8.20			0.75	0.15	1.85		
	Teachers Layout Edga Road	2	5.80			0.75	0.15	1.31		
							Total Qty =	**72.72**		
							Qty Limited to =	**72.72**	5000.00	**363598.00**
	Total									**2326588.00**
	GST @ 12%									**279191.00**
										2605779.00
Rupees Twenty Three Lakh(s) Twenty Six Thousand Five Hundred Eighty Eight Only										

Assistant Engineer
Ward No. 11

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